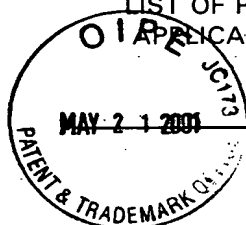


FORM PTO-1449 (Modified)

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March 8, 2001GROUP  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>ah</i>	A	R	E	3	1	8	0	1	6/15/85	Moore, Jr.	71	29	11/15/82
	B	R	E	3	2	9	7	3	7/4/89	Panzarella	446	16	04/21/87
	C	R	E	3	5	3	2	0	8/27/96	Kinnersley <i>et al.</i>	504	161	1/6/95
	D	D	3	4	0	7	5	0	10/26/93	Salmon <i>et al.</i>	D21	147	6/19/92
	E	2	2	4	9	6	0	8	7/15/41	Greene	221	31.5	7/3/39
	F	2	5	4	1	8	5	1	2/13/51	Wright	260	37	12/23/44
	G	2	5	7	9	7	1	4	2/25/51	Treuthart	46	8	06/14/49
	H	2	7	3	8	6	1	6	3/20/56	Windle	46	1	6/26/53
	I	3	3	8	4	4	9	8	5/21/68	Ahrabi	106	38.5	1/4/67
	J	3	5	1	1	6	1	2	5/12/70	Kennerly <i>et al.</i>	252	188.3	3/20/67
	K	3	5	3	9	7	9	4	11/10/70	Rauhut <i>et al.</i>	240	2.25	9/12/67
	L	3	5	6	5	8	1	5	2/23/71	Christy	252	301.3	12/28/67
	M	3	5	8	4	2	1	1	6/8/71	Rauhut	240	2.25	10/7/68
	N	3	5	9	7	8	7	7	8/10/71	Speers	46	116	01/23/69
	O	3	6	3	4	2	8	0	1/11/72	Dean <i>et al.</i>	252	301.3R	12/31/68
	P	3	6	4	9	0	2	9	03/14/72	Worrell	273	186	07/09/69
	Q	3	6	6	1	7	9	0	5/9/72	Dean <i>et al.</i>	252	301.3R	1/31/68
	R	3	6	6	9	8	9	1	6/13/72	Greenwood <i>et al.</i>	252	90	5/27/70
	S	3	7	2	7	2	3	6	04/17/73	Lloyd <i>et al.</i>	2	51	06/15/71
	T	3	7	4	9	3	1	1	7/31/73	Hruby	239	17	04/10/72
	U	3	7	7	3	2	5	8	11/20/73	Hruby	239	17	12/11/72
	V	3	8	0	4	6	5	4	4/16/74	Liu	106	134	2/7/72
<i>ah</i>	W	3	8	2	0	7	1	5	6/28/74	Hamilton	239	17	09/13/73
	X	3	8	3	8	8	1	6	10/01/74	Huff <i>et al.</i>	239	18	01/08/73

EXAMINER

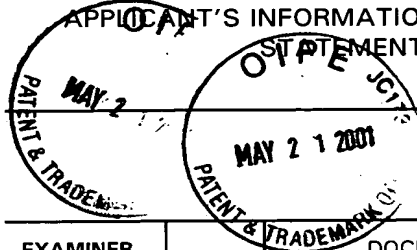
**DR. GEORGIA HELMER**

DATE CONSIDERED

*5 Aug 2003*

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
jh	Y	3	8	4	3	4	4	3	10/22/74	Fishman	195	63	03/30/73
	Z	3	8	5	9	1	2	5	1/07/75	Miller	117	155	10/10/72
	AA	3	8	7	3	4	8	5	3/25/75	Fichera	260	29.2	4/3/74
	AB	3	8	8	9	8	8	0	6/17/75	Hruby	239	18	12/05/73
	AC	3	8	9	4	6	8	9	7/15/75	Billingsley	239	18	07/25/74
	AD	3	9	3	3	4	8	8	1/20/76	Noguchi <i>et al.</i>	96	1	5/16/73
	AE	3	9	3	9	1	2	3	2/17/76	Matthews	260	77.5	06/18/74
	AF	4	0	0	2	8	3	9	1/11/77	Karl <i>et al.</i>	179	15BS	5/27/75
	AG	4	0	0	6	1	1	7	2/01/77	Merrifield <i>et al.</i>	260	45.9	06/06/75
	AH	4	0	1	6	8	8	0	4/12/77	Theeuwes <i>et al.</i>	128	260	3/4/76
	AI	4	0	2	1	3	6	4	5/03/77	Speiser	252	316	12/04/73
	AJ	4	0	7	6	5	4	7	2/28/78	Lester <i>et al.</i>	106	109	2/28/78
	AK	4	0	8	1	3	9	4	3/28/78	Bartley	252	91	09/17/76
	AL	4	1	5	1	9	9	4	05/01/79	Stalberger	273	058.A	03/23/77
	AM	4	1	6	2	3	5	5	7/24/79	Tsibris	526	293	06/30/76
	AN	4	1	7	1	4	1	2	10/16/79	Čoupek <i>et al.</i>	525	329	04/17/75
	AO	4	1	7	2	0	5	4	10/23/79	Ogawa <i>et al.</i>	260	8	12/21/76
	AP	4	1	7	5	1	8	3	11/20/79	Ayers	536	57	05/24/78
	AQ	4	1	7	7	0	3	8	12/04/79	Biebricher <i>et al.</i>	8	192	05/17/77
	AR	4	1	7	8	4	3	9	12/11/79	Ayers <i>et al.</i>	536	59	03/01/77
	AS	4	1	7	9	4	0	2	12/18/79	Kim <i>et al.</i>	252	431	05/15/78
	AT	4	1	8	0	5	2	4	12/25/79	Reusser <i>et al.</i>	585	644	02/16/78
	AU	4	2	0	2	9	0	5	5/13/80	Asai <i>et al.</i>	426	1	2/22/78
jh	AV	4	2	1	4	6	7	4	7/29/80	Jones <i>et al.</i>	222	79	5/30/78

EXAMINER

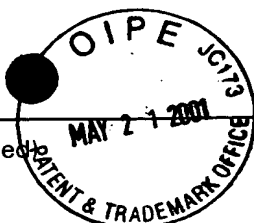
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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
AW	4	2	2	5	5	8	1	9/30/80	Kreuter <i>et al.</i>	424	88	8/07/78	
AX	4	2	2	9	7	9	0	11/21/80	Gilliland <i>et al.</i>	364	200	10/16/78	
AY	4	2	4	1	5	3	7	12/30/80	Wood	47	77	05/10/79	
AZ	4	2	4	4	7	2	1	1/13/81	Gupta <i>et al.</i>	65	31	01/31/79	
BA	4	2	4	6	7	1	7	1/27/81	Wachtel	46	6	04//03/79	
BB	4	2	6	9	8	2	1	5/26/81	Kreuter	424	19	05/02/80	
BC	4	2	8	2	2	8	7	8/4/81	Giese	428	407	01/24/80	
BD	4	2	8	2	6	7	8	8/11/81	Tsui	46	175	04/25/80	
BE	4	2	9	2	7	5	4	10/06/81	Lukaszewski	46	6	09/19/80	
BF	4	3	1	3	8	4	3	2/2/82	Bollyky <i>et al.</i>	252	188.3	9/9/76	
BG	4	3	2	2	3	1	1	3/30/82	Lim <i>et al.</i>	252	316	04/25/80	
BH	4	3	2	4	6	8	3	4/13/82	Lim <i>et al.</i>	252	316	08/20/75	
BI	4	3	2	9	3	3	2	5/11/82	Couvreur <i>et al.</i>	424	9	07/16/79	
BJ	4	3	3	4	3	8	3	6/15/82	Melotti	46	7	09/29/80	
BK	4	4	3	8	8	6	9	3/27/84	Vierkötter <i>et al.</i>	222	1	7/3/81	
BL	4	4	3	9	5	8	5	3/27/84	Gould <i>et al.</i>	525	127	09/02/82	
BM	4	4	8	5	2	2	7	11/27/84	Fox	528	61	06/16/83	
BN	4	5	0	7	2	3	0	3/26/85	Tam <i>et al.</i>	260	112.5	05/12/82	
BO	4	5	1	1	4	9	7	4/16/85	Ehrlich	252	542	09/28/83	
BP	4	5	2	2	8	1	1	6/11/85	Eppstein <i>et al.</i>	514	2	07/08/82	
BQ	4	5	2	5	3	0	6	6/25/85	Yajima	260	428.5	08/03/82	
BR	4	5	2	8	1	8	0	7/09/85	Schaeffer	424	52	03/01/83	
BS	4	5	3	4	3	1	7	8/13/85	Walsh	119	51R	8/30/84	
BT	4	5	4	2	1	0	2	9/17/85	Dattagupta <i>et al.</i>	435	6	07/05/83	

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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>[Signature]</i>	BU	4	5	5	6	3	9	2	12/03/85	Chang	446	16	07/24/84
	BV	4	5	6	2	1	5	7	12/31/85	Lowe <i>et al.</i>	435	291	05/25/84
	BW	4	5	6	3	7	2	6	1/7/86	Newcomb <i>et al.</i>	362	34	8/20/84
	BX	4	5	6	5	6	4	7	1/21/86	Llenado	252	354	07/12/82
	BY	4	5	6	9	9	8	1	2/11/86	Wenzel <i>et al.</i>	528	67	07/06/81
	BZ	4	5	8	1	3	3	5	4/8/86	Baldwin	435	172.3	12/1/82
	CA	4	6	1	5	4	8	8	10/07/86	Sands	239	391	07/09/84
	CB	4	6	2	4	9	7	6	11/25/86	Amano <i>et al.</i>	524	13	7/22/85
	CC	4	6	7	6	4	0	6	6/30/87	Frischmann <i>et al.</i>	222	136	9/29/86
	CD	4	6	8	1	8	7	0	7/21/87	Balint <i>et al.</i>	502	403	01/11/85
	CE	4	6	8	7	6	6	3	8/18/87	Schaeffer	424	52	6/17/85
	CF	4	6	9	7	3	7	4	10/6/87	Simms	43	17.5	10/6/86
	CG	4	7	0	0	8	7	2	10/20/87	Keyes <i>et al.</i>	222	162	8/19/86
	CH	4	7	0	0	9	6	5	10/20/87	Kinbeg	280	289	10/21/86
	CI	4	7	0	1	3	2	9	10/20/87	Nelson <i>et al.</i>	426	74	2/10/86
	CJ	4	7	1	1	6	5	9	12/8/87	Moore	71	93	8/18/86
	CK	4	7	1	4	6	8	2	12/22/87	Schwartz	436	10	4/3/87
	CL	4	7	1	7	1	5	8	1/5/88	Pennisi	273	58A	6/26/86
	CM	4	7	3	3	7	9	9	3/29/88	Wiskur	222	79	02/24/86
	CN	4	7	3	5	6	6	0	4/5/88	Cane	106	203	6/26/87
	CO	4	7	5	0	6	4	1	6/14/88	Chin-Fu	222	79	9/24/86
	CP	4	7	6	2	8	8	1	8/09/88	Kauer	525	54.11	01/09/87
	CQ	4	7	6	4	1	4	1	8/16/88	D'Andrade	446	16	12/28/87
<i>[Signature]</i>	CR	4	7	6	5	5	1	0	8/23/88	Rende	222	79	4/7/87

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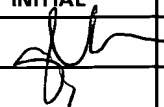
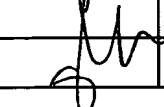
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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	CS	4	7	6	7	2	0	6	8/30/88	Schwartz	356	73	12/24/84
	CT	4	7	6	8	6	8	1	9/06/88	Dean <i>et al.</i>	222	79	06/22/87
	CU	4	7	7	4	1	8	9	9/27/88	Schwartz	436	10	12/11/85
	CV	4	7	8	1	6	4	7	11/1/88	Doane, Jr.	446	219	5/4/87
	CW	4	7	8	4	2	9	3	12/15/88	Hiroshi	222	79	07/31/84
	CX	4	7	8	9	6	3	3	12/06/88	Huang	435	240.2	04/19/84
	CY	4	8	0	4	3	4	6	2/14/89	Sheng	446	17	11/04/87
	CZ	4	8	0	4	4	0	3	2/14/89	Moore	71	28	8/6/87
	DA	4	8	0	8	1	3	8	2/28/89	von Braunhut	446	16	11/13/87
	DB	4	8	0	8	1	4	3	2/28/89	Kuo	446	406	09/02/87
	DC	4	8	4	0	5	9	7	6/20/89	Perez	446	16	06/17/87
	DD	4	8	4	9	2	1	3	7/18/89	Schaeffer	424	53	06/19/87
	DE	4	8	5	2	8	0	1	8/01/89	Fuller <i>et al.</i>	239	12	03/11/88
	DF	4	8	5	3	3	2	7	8/1/89	Dattagupta	435	6	7/10/85
	DG	4	8	5	4	4	8	0	8/8/89	Shindo	222	79	1/4/88
	DH	4	8	6	1	3	0	3	8/29/89	Mong-Sheng	446	17	08/28/87
	DI	4	8	6	1	7	0	9	8/29/89	Ulitzur <i>et al.</i>	435	6	5/31/85
	DJ	4	8	6	7	2	0	8	9/19/89	Fitzgerald <i>et al.</i>	141	18	02/04/88
	DK	4	8	6	7	7	2	4	9/19/89	Sheng	446	17	10/19/87
	DL	4	8	6	7	9	0	8	9/19/89	Recktenwald <i>et al.</i>	252	408.1	6/4/87
	DM	4	8	7	1	0	9	0	10/3/89	Hoffmann	222	81	7/21/88
	DN	4	8	8	2	1	6	5	11/21/89	Hunt <i>et al.</i>	424	450	11/05/86
	DO	4	8	8	5	2	5	0	12/05/89	Eveleigh <i>et al.</i>	435	181	03/02/87
	DP	4	8	9	1	0	4	3	1/02/90	Zeimer <i>et al.</i>	604	20	05/28/87

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<i>gh</i>	DQ	4	8	9	2	2	2	8	1/09/90	Yano	222	79	07/29/88
	DR	4	8	9	5	7	2	1	1/23/90	Drucker	424	53	01/22/88
	DS	4	9	0	0	6	8	0	2/13/90	Miyazawa <i>et al.</i>	436	71	3/14/88
	DT	4	9	0	8	4	0	5	3/13/90	Bayer <i>et al.</i>	525	61	01/02/86
	DU	4	9	1	9	1	4	0	04/24/90	Borgens <i>et al.</i>	128	422	10/14/88
	DV	4	9	2	1	7	5	7	5/01/90	Wheatley <i>et al.</i>	428	402.2	09/03/87
	DW	4	9	2	3	4	2	6	5/08/90	Klunt	446	19	07/20/89
	DX	4	9	2	4	3	5	8	5/8/90	Von Heck	362	32	9/12/88
	DY	4	9	2	7	8	7	9	5/22/90	Pidgeon	525	54.1	10/24/88
	DZ	4	9	3	1	4	9	8	6/05/90	Pidgeon	525	54.1	02/25/88
	EA	4	9	4	3	2	5	5	7/24/90	Klunt	446	15	12/02/87
	EB	4	9	5	0	5	8	8	8/21/90	Dattagupta	435	6	9/27/88
	EC	4	9	5	4	4	4	4	9/04/90	Eveleigh <i>et al.</i>	435	181	12/17/87
	ED	4	9	5	5	8	4	0	9/11/90	Moomaw	446	17	08/15/89
	EE	4	9	5	7	4	6	4	9/18/90	Perez	446	16	03/31/89
	EF	4	9	6	3	1	1	7	10/16/90	Gualdoni	446	219	10/30/89
	EG	4	9	6	3	3	6	8	10/16/90	Antrim <i>et al.</i>	424	498	4/18/88
	EH	4	9	6	8	6	1	3	11/6/90	Masuda <i>et al.</i>	435	172.3	7/26/88
	EI	4	9	9	9	2	0	8	3/12/91	van Lengerrich	426	549	06/07/89
	EJ	5	0	0	4	4	4	4	4/02/91	Chih	446	406	08/09/89
	EK	5	0	0	4	5	6	5	4/02/91	Schaap	252	700	07/27/88
	EL	5	0	0	7	9	2	4	4/16/91	Jekel	606	234	8/9/89
	EM	5	0	1	5	5	8	0	5/14/91	Christou <i>et al.</i>	435	172.3	5/12/88
<i>gh</i>	EN	5	0	1	8	4	4	9	5/28/91	Eidson, II	102	498	9/20/88

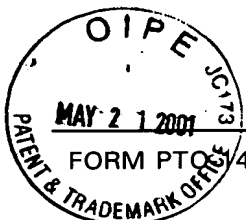
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FORM PTO/S-449 (Modified)

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<i>gh</i>	EO	5	0	2	3	1	8	1		6/11/91	Inouye	435	189	7/13/88
	EP	5	0	2	9	7	3	2		7/9/91	Wong	222	79	7/17/89
	EQ	5	0	3	8	9	6	3		8/13/91	Pettengill <i>et al.</i>	222	145	4/30/90
	ER	5	0	4	1	0	4	2		8/20/91	Stein	446	15	12/19/89
	ES	5	0	5	9	4	1	7		10/22/91	Williams <i>et al.</i>	424	53	6/26/90
	ET	5	0	6	4	0	9	5		11/12/91	Camerino	222	99	03/15/90
	EU	5	0	7	1	3	8	7		12/10/91	Pottick	446	475	11/19/90
	EV	5	0	7	8	6	3	6		1/07/92	Clarke <i>et al.</i>	446	15	03/20/90
	EW	5	0	8	0	6	2	3		1/14/92	Stein	446	15	01/30/90
	EX	5	0	8	5	8	5	3		2/4/92	Williams <i>et al.</i>	424	53	6/24/91
	EY	5	0	8	8	9	5	0		2/18/92	LaFata	446	19	05/14/90
	EZ	5	0	9	2	9	9	2		3/03/92	Crane <i>et al.</i>	210	198.2	05/17/91
	FA	5	0	9	3	2	4	0		3/3/92	Inouye <i>et al.</i>	435	69.1	10/8/87
	FB	5	0	9	6	8	0	7		03/17/92	Leaback	435	6	12/01/89
	FC	5	0	9	8	8	2	8		3/24/92	Geiger <i>et al.</i>	435	7.72	10/24/86
	FD	5	1	1	6	8	6	8		05/26/92	Chen <i>et al.</i>	514	546	05/03/89
	FE	5	1	3	5	4	2	2		8/04/92	Bowen	446	15	07/30/91
	FF	5	1	3	9	9	3	7		8/18/92	Inouye <i>et al.</i>	435	69.1	11/18/88
	FG	5	1	4	1	4	6	2		8/25/92	Latzel	446	28	06/13/91
	FH	5	1	4	1	4	6	7		8/25/92	Crosbie	446	398	02/01/91
	FI	5	1	4	1	6	6	4		8/25/92	Corring <i>et al.</i>	252	90	12/30/87
	FJ	5	1	5	0	8	1	9		9/29/92	Johnson <i>et al.</i>	222	79	02/28/92
	FK	5	1	5	3	2	3	1		10/6/92	Bouquet <i>et al.</i>	521	88	3/12/92
<i>gh</i>	FL	5	1	5	6	5	6	4		10/20/92	Hasegawa	446	15	06/10/91

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gh	FM	5	1	5	8	3	4	9	10/27/92	Holland <i>et al.</i>	362	34	07/03/91
	FN	5	1	6	2	2	2	7	11/10/92	Cormier	435	252.33	3/17/88
	FO	5	1	6	6	0	6	5	11/24/92	Williams <i>et al.</i>	435	240.1	5/31/90
	FP	5	1	6	7	3	6	8	12/01/92	Nash	239	17	10/16/91
	FQ	5	1	7	1	0	8	1	12/15/92	Pita <i>et al.</i>	362	34	5/29/92
	FR	5	1	7	4	4	7	7	12/29/92	Schafer	222	183	3/12/91
	FS	5	1	7	7	8	1	2	1/12/93	DeMars	2	199	8/10/92
	FT	5	1	8	1	8	7	5	1/26/93	Hasegawa	446	15	03/09/92
	FU	5	1	8	2	2	0	2	1/26/93	Kajiyama <i>et al.</i>	435	189	8/5/91
	FV	5	1	8	3	4	2	8	2/02/93	Lin	446	15	12/11/91
	FW	5	1	8	3	4	2	9	2/02/93	Bitton	446	73	07/31/91
	FX	5	1	8	4	7	5	5	2/9/93	Brovelli	222	79	12/11/91
	FY	5	1	8	8	8	3	7	2/23/93	Domb	424	450	10/03/91
	FZ	5	1	9	0	7	6	2	3/02/93	Yarosh	424	450	01/23/91
	GA	5	1	9	2	6	7	9	3/09/93	Dawson <i>et al.</i>	435	243	05/03/90
	GB	5	1	9	6	3	1	8	3/23/93	Baldwin <i>et al.</i>	435	69.1	06/26/90
	GC	5	1	9	6	5	2	4	3/23/93	Gustafson <i>et al.</i>	536	23.2	01/06/89
	GD	5	2	0	6	1	6	1	4/27/93	Drayna <i>et al.</i>	435	212	02/01/91
	GE	5	2	1	3	0	8	9	5/25/93	DeLuca	124	29	08/08/91
	GF	5	2	1	3	3	3	5	5/25/93	Dote <i>et al.</i>	273	313	03/08/91
	GG	5	2	1	9	0	9	6	6/15/93	Wing	222	79	4/17/92
	GH	5	2	1	9	7	3	7	6/15/93	Kajiyama <i>et al.</i>	435	69.1	3/26/91
gh	GI	5	2	2	1	6	2	3	6/22/93	Legocki <i>et al.</i>	435	252.3	7/19/89
	GJ	5	2	2	2	7	9	7	6/29/93	Holland	362	34	10/31/91

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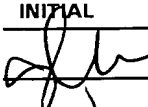
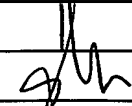




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	GK	5	2	2	4	6	2	5	7/06/93	Holtier	222	1	07/08/91
	GL	5	2	2	4	8	9	3	7/06/93	Routzong <i>et al.</i>	446	15	11/25/92
	GM	5	2	2	5	2	1	2	7/06/93	Martin	424	450	12/10/90
	GN	5	2	2	9	2	8	5	7/20/93	Kajiyama <i>et al.</i>	435	189	6/23/92
	GO	5	2	2	9	5	3	1	7/20/93	Song	42	58	8/3/92
	GP	5	2	3	4	1	2	9	8/10/93	Lau	222	79	06/09/92
	GQ	5	2	3	8	1	4	9	8/24/93	Johnson <i>et al.</i>	222	79	04/22/92
	GR	5	2	4	1	9	4	4	9/07/93	Rappaport	124	67	08/24/92
	GS	5	2	4	4	1	5	3	12/14/93	Kuhn <i>et al.</i>	239	587.5	06/22/92
	GT	5	2	4	6	6	3	1	9/21/93	Halbritter	252	700	5/23/91
	GU	5	2	4	6	8	3	4	9/21/93	Tsui <i>et al.</i>	435	7.91	2/19/92
	GV	5	2	5	6	0	9	9	10/26/93	Rudell <i>et al.</i>	446	473	03/19/92
	GW	5	2	6	8	4	6	3	12/7/93	Jefferson	536	23.7	12/8/89
	GX	5	2	6	9	7	1	5	12/14/93	Silveria <i>et al.</i>	446	16	08/27/92
	GY	5	2	7	2	0	7	9	12/21/93	Yarosh	435	193	02/05/93
	GZ	5	2	7	7	9	1	3	1/11/94	Thompson <i>et al.</i>	424	450	09/09/91
	HA	5	2	8	3	1	2	2	2/01/94	Huang <i>et al.</i>	428	402.2	02/14/92
	HB	5	2	8	3	9	1	1	2/8/94	DeMars	2	209.13	1/7/93
	HC	5	2	8	4	2	7	2	2/08/94	Wei	222	192	10/19/92
	HD	5	2	8	4	2	7	4	2/08/94	Lee <i>et al.</i>	222	79	02/02/92
	HE	5	2	8	4	6	4	6	2/08/94	Menz <i>et al.</i>	424	9	10/03/91
	HF	5	2	8	8	0	1	8	2/22/94	Chikazumi	239	20	10/16/92
	HG	5	2	8	8	6	2	3	2/22/94	Zenno <i>et al.</i>	435	69.7	7/13/92
	HH	5	2	9	2	0	3	2	3/8/94	Johnson <i>et al.</i>	222	79	4/22/92

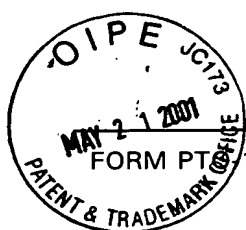
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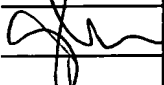
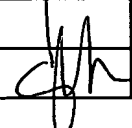
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	HI	5	2	9	2	6	5	8	3/8/94	Cormier <i>et al.</i>	435	252.33	6/17/93
	HJ	5	2	9	2	8	1	4	3/08/94	Bayer <i>et al.</i>	525	243	03/14/91
	HK	5	2	9	6	2	3	1	3/22/94	Yarosh	424	450	06/27/89
	HL	5	3	0	3	8	4	7	4/19/94	Cottone	222	78	04/05/93
	HM	5	3	0	4	0	8	5	4/19/94	Novak	446	15	12/18/92
	HN	5	3	0	5	9	1	9	4/26/94	Johnson <i>et al.</i>	222	79	4/23/92
	HO	5	3	0	6	6	3	1	4/26/94	Harrison <i>et al.</i>	435	172.3	4/15/91
	HP	5	3	1	0	4	2	1	5/10/94	Shapero <i>et al.</i>	106	208	2/7/92
	HQ	5	3	2	2	1	9	1	6/21/94	Johnson <i>et al.</i>	222	79	6/22/92
	HR	5	3	2	2	4	6	4	6/21/94	Sanford	446	15	03/05/93
	HS	5	3	2	3	4	9	2	6/28/94	DeMars	2	203.13	11/6/92
	HT	5	3	2	6	3	0	3	7/05/94	D'Andrade	446	407	06/15/92
	HU	5	3	2	8	6	0	3	7/12/94	Velander <i>et al.</i>	210	198.2	08/19/92
	HV	5	3	3	0	9	0	6	7/19/94	Kajiyama <i>et al.</i>	435	189	6/15/93
	HW	5	3	3	4	6	4	0	8/02/94	Desai <i>et al.</i>	524	56	04/08/92
	HX	5	3	3	7	9	5	6	8/16/94	Crutcher	239	27	02/10/93
	HY	5	3	3	9	9	8	7	8/23/94	D'Andrade	222	79	06/28/93
	HZ	5	3	4	1	5	3	8	8/30/94	Banome	15	210.1	03/05/93
	IA	5	3	4	2	6	0	7	8/30/94	Josephson	424	9	08/03/92
	IB	5	3	4	3	8	4	9	9/06/94	Steer	124	72	08/17/92
	IC	5	3	4	3	8	5	0	9/06/94	Steer	124	64	8/17/92
	ID	5	3	4	6	4	1	8	9/13/94	Arad	446	91	10/01/92
	IE	5	3	4	6	4	5	5	9/13/94	Volkert	493	335	12/30/92
	IF	5	3	4	8	3	9	2	9/20/94	Bouquet <i>et al.</i>	366	162	10/7/93

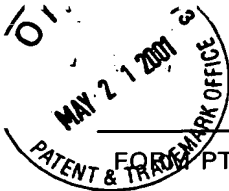
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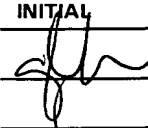
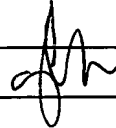
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	IG	5	3	4	8	5	0	7	9/20/94	McGhie <i>et al.</i>	446	16	08/18/93
	IH	5	3	5	1	9	3	1	10/04/94	Houben <i>et al.</i>	249	141	03/23/93
	II	5	3	5	2	4	3	2	10/04/94	Menz <i>et al.</i>	424	9	07/20/92
	IJ	5	3	5	2	4	4	8	10/04/94	Bowersock <i>et al.</i>	424	438	07/20/92
	IK	5	3	5	2	5	9	8	10/4/94	Kajiyama <i>et al.</i>	435	189	8/29/91
	IL	5	3	5	3	3	7	8	10/04/94	Hoffman <i>et al.</i>	395	2.81	04/16/93
	IM	5	3	6	0	0	1	0	11/01/94	Applegate	128	745	01/05/91
	IN	5	3	6	0	1	4	2	11/01/94	Stern <i>et al.</i>	222	79	12/07/92
	IO	5	3	6	0	7	2	6	11/01/94	Raikhel	435	172.3	11/12/91
	IP	5	3	6	0	7	2	8	11/1/94	Prasher	435	189	12/1/92
	IQ	5	3	6	2	8	6	5	11/8/94	Austin	536	24.1	9/2/93
	IR	5	3	6	3	9	8	4	11/15/94	Laird	221	24	07/23/93
	IS	5	3	6	6	1	0	8	11/22/94	Darling	222	1	11/15/93
	IT	5	3	6	6	4	0	2	11/22/94	Rudell <i>et al.</i>	446	16	11/23/92
	IU	5	3	6	6	8	8	1	11/22/94	Singh <i>et al.</i>	435	177	02/23/93
	IV	5	3	6	8	5	1	8	11/29/94	Hitchcock	446	329	06/28/93
	IW	5	3	7	0	2	7	8	12/06/94	Raynie	222	175	08/03/93
	IX	5	3	7	3	8	3	2	12/20/94	D'Andrade	124	69	07/12/93
	IY	5	3	7	3	8	3	3	12/20/94	D'Andrade	124	69	07/12/93
	IZ	5	3	7	3	9	7	5	12/20/94	Husted	222	394	7/30/92
	JA	5	3	7	4	5	3	4	12/20/94	Zomer <i>et al.</i>	435	8	5/14/93
	JB	5	3	7	4	8	0	5	12/20/94	DiFranco	219	121	02/15/94
	JC	5	3	7	7	6	5	6	1/3/95	Lewinski <i>et al.</i>	124	65	5/10/93
	JD	5	3	8	1	9	2	8	1/17/95	Lee <i>et al.</i>	222	79	10/06/92

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	JF	5	3	8	3	1	0	0	1/17/95	Kikos	362	34	8/2/91
	JG	5	3	8	3	6	8	4	1/24/95	Smath	281	29	03/28/94
	JH	5	3	8	8	2	8	5	2/14/95	Belniak	4	507	04/18/94
	JI	5	3	8	9	0	3	3	2/15/94	Rauch	446	473	07/23/93
	JJ	5	3	8	9	4	4	9	2/14/95	Afeyan <i>et al.</i>	428	523	01/05/93
	JK	5	3	9	0	0	8	6	2/14/95	Holland	362	34	6/21/93
	JL	5	3	9	3	2	5	6	2/28/95	Mitchell <i>et al.</i>	446	15	02/07/94
	JM	5	3	9	3	5	8	0	2/28/95	Ma <i>et al.</i>	428	29	12/20/93
	JN	5	3	9	6	4	0	8	3/07/95	Szczzech	362	397	01/03/94
	JO	5	3	9	7	0	1	4	3/14/95	Aydt	220	269	12/22/93
	JP	5	3	9	7	6	0	9	3/14/95	Chapman	428	17	03/11/93
	JQ	5	3	9	8	8	2	7	3/21/95	Armstrong <i>et al.</i>	215	6	8/20/93
	JR	5	3	9	8	9	7	2	3/21/95	Todaro	283	67	03/14/94
	JS	5	3	9	9	1	2	2	3/21/95	Slater	472	51	1/7/93
	JT	5	4	0	0	6	9	8	3/28/95	Savage	99	439	07/12/93
	JU	5	4	0	1	7	7	3	3/28/95	Noel	514	547	02/06/91
	JV	5	4	0	2	8	3	6	4/04/95	Hasper <i>et al.</i>	141	364	03/23/94
	JW	5	4	0	3	2	2	1	4/4/95	Savage	446	45	7/13/93
	JX	5	4	0	3	7	5	0	4/04/95	Braatz <i>et al.</i>	436	531	04/08/91
	JY	5	4	0	5	0	5	6	4/11/95	Mills	222	136	4/1/94
gjh	JZ	5	4	0	5	2	0	6	4/11/95	Bedol	401	7	07/26/91
	KA	5	4	0	5	9	0	5	4/11/95	Darr	524	420	11/26/93
	KB	5	4	0	5	9	5	8	4/11/95	VanGermert	544	71	12/21/92

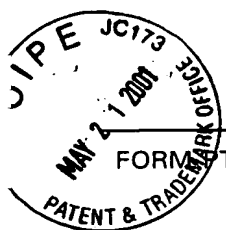
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	KD	5	4	0	7	6	9	1	4/18/95	Przelomski <i>et al.</i>	426	249	09/16/92
	KE	5	4	1	0	9	6	2	5/02/95	Collier	101	375	11/16/92
	KF	5	4	1	1	4	2	7	5/02/95	Nelson <i>et al.</i>	446	71	04/26/93
	KG	5	4	1	1	7	3	0	5/02/95	Kirpotin <i>et al.</i>	424	322	07/20/93
	KH	5	4	1	2	0	8	5	5/2/95	Allen <i>et al.</i>	536	24.1	11/9/93
	KI	5	4	1	2	1	1	8	5/02/95	Vermeer <i>et al.</i>	549	417	10/12/93
	KJ	5	4	1	3	3	3	2	5/09/95	Montgomery	273	58	05/26/94
	KK	5	4	1	3	4	5	4	5/09/95	Movesesian	414	729	07/09/93
	KL	5	4	1	5	1	5	1	5/16/95	Fusi <i>et al.</i>	124	56	9/20/93
	KM	5	4	1	6	0	1	7	5/16/95	Burton <i>et al.</i>	435	240.2	3/25/93
	KN	5	4	1	6	1	9	3	5/16/95	Desai	530	334	04/30/93
	KO	5	4	1	6	9	2	7	05/23/95	Spangrud	2	195.1	02/02/94
	KP	5	4	1	8	1	5	5	5/23/95	Cormier <i>et al.</i>	435	189	12/14/93
	KQ	5	4	1	9	4	5	8	5/30/95	Mayer	222	79	12/29/93
	KR	5	4	1	9	5	5	8	5/30/95	Jones	273	153	03/10/94
	KS	5	4	1	9	7	2	8	5/30/95	Dallara	446	15	04/06/94
	KT	5	4	2	1	5	8	3	06/06/95	Gluck	273	293	02/07/94
	KU	5	4	2	2	0	7	5	06/06/95	Saito <i>et al.</i>	422	52	05/27/93
	KV	5	4	2	2	2	6	6	06/6/95	Cormier <i>et al.</i>	435	252.3	10/9/92
	KW	5	4	2	4	2	1	6	6/13/95	Nagano <i>et al.</i>	436	116	8/16/93
	KX	5	4	2	7	3	2	0	6/27/95	Mak <i>et al.</i>	239	587.5	09/14/94
	KY	5	4	2	9	3	5	1	7/4/95	Hanson	273	58	5/19/94
	KZ	5	4	3	2	0	8	1	7/11/95	Jefferson	435	252.3	11/15/93

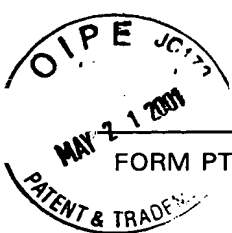
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## U.S. PATENT DOCUMENTS

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	LB	5	4	3	2	6	2	3	07/11/95	Egan <i>et al.</i>	359	15	09/27/93
	LC	5	4	3	5	0	1	0	7/25/95	May	2	67	10/18/93
	LD	5	4	3	5	7	8	7	7/25/95	Ratcliffe	472	56	01/29/92
	LE	5	4	3	5	9	3	7	7/25/95	Bell <i>et al.</i>	252	301.18	02/12/93
	LF	5	4	3	6	3	9	2	7/25/95	Thomas <i>et al.</i>	800	205	12/21/92
	LG	5	4	3	9	1	3	9	8/08/95	Brovelli	222	79	01/31/94
	LH	5	4	3	9	1	7	0	8/08/95	Dach	239	18	11/17/93
	LI	5	4	4	8	9	8	4	9/12/95	Brovelli	124	69	08/19/93
	LJ	5	4	5	1	3	4	7	9/19/95	Akhavan-Tafti <i>et al.</i>	252	700	6/24/93
	LK	5	4	5	1	6	8	3	9/19/95	Barrett <i>et al.</i>	548	302.7	04/23/93
	LL	5	4	5	5	3	5	7	10/3/95	Herrmann <i>et al.</i>	548	147	3/29/93
	LM	5	4	5	7	1	8	2	10/10/95	Wiederrecht	530	402	02/15/94
	LN	5	4	5	8	9	3	1	10/17/95	Mankes	428	14	01/26/95
	LO	5	4	6	0	0	2	2	10/24/95	Parsons	70	456	08/20/93
gh	LP	5	4	6	2	4	6	9	10/31/95	Lei	446	15	08/24/93
	LQ	5	4	6	4	7	5	8	11/7/95	Gossen <i>et al.</i>	435	69.1	6/14/93
	LR	5	4	7	0	8	8	1	11/28/95	Charlton <i>et al.</i>	514	588	09/09/93
	LS	5	4	7	2	1	4	0	12/05/95	Versaw <i>et al.</i>	239	24	07/08/94
	LT	5	4	7	6	7	7	9	12/19/95	Chen <i>et al.</i>	435	240.1	9/30/92
gh	LU	5	4	7	8	2	6	7	12/26/95	McDonald <i>et al.</i>	446	15	09/22/93
	LV	5	4	7	8	4	9	0	12/26/95	Russo <i>et al.</i>	252	153	07/05/94
	LW	5	4	7	8	5	0	1	12/26/95	Rau	252	547	04/07/94
	LX	5	4	8	0	0	9	4	1/2/96	Fuller <i>et al.</i>	239	17	1/10/94

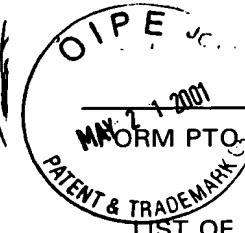
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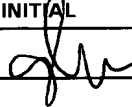
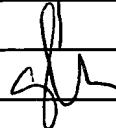
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	LY	5	4	8	0	3	3	4	1/02/96	Wilson <i>et al.</i>	446	46	04/22/94
	LZ	5	4	8	2	7	1	9	1/09/96	Guillet <i>et al.</i>	424	486	10/30/92
	MA	5	4	8	4	5	8	9	1/16/96	Salganik	424	94.2	03/17/95
	MB	5	4	8	4	7	2	3	1/16/96	Zenno <i>et al.</i>	435	189	6/28/94
	MC	5	4	8	6	4	5	5	01/23/96	Stults	435	6	08/22/94
	MD	5	4	8	9	7	4	2	2/6/96	Hammer <i>et al.</i>	800	2	6/27/91
	ME	5	5	1	0	0	9	9	4/23/96	Short <i>et al.</i>	424	9.2	9/23/93
	MF	5	5	1	2	4	2	1	4/30/96	Burns <i>et al.</i>	435	320.1	8/10/93
	MG	5	5	4	7	4	8	6	8/20/96	Detrick <i>et al.</i>	71	28	12/15/94
	MH	5	5	5	3	8	5	3	9/10/96	Sackitey	273	236	8/28/95
	MI	5	5	5	4	0	3	5	9/10/96	Gooch	434	297	7/1/94
	MJ	5	6	0	4	1	2	3	02/18/97	Kazami <i>et al.</i>	435	189	06/15/94
	MK	5	6	2	5	0	4	8	4/29/97	Tsien <i>et al.</i>	536	23.4	11/10/94
	ML	5	6	3	2	9	5	7	05/27/97	Heller <i>et al.</i>	422	68.1	09/09/94
	MM	5	6	7	1	9	9	8	9/30/97	Collet	362	101	2/24/93
	MN	5	7	3	0	3	2	1	03/24/98	McAllister <i>et al.</i>	222	1	12/13/95
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	MP	5	7	7	6	6	8	1	07/07/98	Virta <i>et al.</i>	435	6	09/15/95
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## FOREIGN PATENT DOCUMENTS

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	NI	0	7	1	3	0	8	9	05/22/96	EP A2				
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\* English language abstract provided

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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

gh	OM	"AquaLite®. A calcium-triggered photoprotein," <u>SeaLite Sciences Technical Report No. 3</u> (1994)
	ON	Anctil <i>et al.</i> , Mechanism of photoinactivation and re-activation in the bioluminescence system of the ctenophore Mnemiopsis, <u>Biochem. J. 22(1)</u> : 269-272 (1984)
	OO	Apt <i>et al.</i> , Evolution of phycobiliproteins, <u>J. Mol. Biol. 248</u> : 79-96 (1995)
	OP	Assil <i>et al.</i> , Sustained release of the antimetabolite cytarabine in the eye multivesicular liposomes, <u>Arch. Ophthalmol. 105</u> : 400-403 (1987)
	OQ	Badminton <i>et al.</i> , Nucleoplasmin-targeted aequorin provides evidence for a nuclear calcium barrier, <u>Expt. Cell Research 216(1)</u> : 236-243 (1995)
	OR	Baldwin <i>et al.</i> , Cloning of the luciferase structural genes from <i>Vibrio harveyi</i> and expression of bioluminescence in <i>Escherichia coli</i> , <u>Biochemistry 23</u> : 3663-3667 (1984)
	OS	Baldwin <i>et al.</i> , Applications of the cloned bacterial luciferase genes LUXA and LUXB to the study of transcriptional promoters and terminators, <u>Bioluminescence and Chemiluminescence: Basic Chemistry and Analytical Applications</u> , pp. 373-375 (1981)
	OT	Batra <i>et al.</i> , Insertion of constant region domains of human IgG <sub>1</sub> into CD4-PE40 increases its plasma half-life, <u>Mol. Immunol. 30</u> : 379-386 (1993)
	OU	Becvar <i>et al.</i> , A thermodynamic explanation for the kinetic differences observed using different chain length aldehydes in the <i>in vitro</i> bacterial bioluminescent reaction, in <u>Bioluminescence and Chemiluminescence: New Perspectives</u> , pp. 147-55, 180-85, John Wiley & Sons (1981)
	OV	Belas <i>et al.</i> , Bacterial bioluminescence: Isolation and expression of the luciferase genes from <i>Vibrio harveyi</i> , <u>Science 218</u> : 791-793 (1982)
	OW	Berg <i>et al.</i> , Peptide synthesis on polystyrene-grafted polyethylene sheets, <u>Pept., Proc. Eur. Pept. Symp., 20th</u> , Jung <i>et al.</i> (Eds.), pp. 196-198 (1989)
	OX	Berg <i>et al.</i> , Long-chain polystyrene-grafted polyethylene film matrix: a new support for solid-phase peptide synthesis, <u>J. Am. Chem. Soc. 111</u> : 8026-8027 (1989)
	OY	Berg <i>et al.</i> , Polystyrene-grafted polyethylene: Design of film and felt matrices for solid-phase peptide synthesis, <u>Innovation Perspect. Solid Phase Synth. Collect. Pap., Int. Symp., 1st</u> , Epton (ed.), pp. 453-459 (1990)
gh	OZ	Bhalerao <i>et al.</i> , Cloning of the <i>cpcE</i> and <i>cpcF</i> genes from <i>Synechococcus</i> sp. PCC 6301 and their inactivation in <i>Synechococcus</i> sp. PCC 7942, <u>Plant Molec. Biol. 26</u> : 313-326 (1994)

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gjh	PA	Blinks <i>et al.</i> , Multiple forms of the calcium-sensitive bioluminescent protein aequorin, <u>Fed. Proc.</u> 1435: 474 (1975)
	PB	Bondar <i>et al.</i> , Cadmium-induced luminescence of recombinant photoprotein obelin, <u>Biochim. Biophys. Acta</u> 1231: 29-32 (1995)
	PC	Bunnin <i>et al.</i> , The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library, <u>Proc. Natl. Acad. Sci. U.S.A.</u> 91:4708 (1994).
	PD	Button <i>et al.</i> , Aequorin-expressing mammalian cell lines used to report Ca <sup>2+</sup> mobilization, <u>Cell Calcium</u> 14(9):663-671 (1993)
	PE	Butz <i>et al.</i> , Immunization and affinity purification of antibodies using resin-immobilized lysine-branched synthetic peptides, <u>Peptide Res.</u> 7: 20-23 (1994)
	PF	Campbell <i>et al.</i> , Formation of the Ca <sup>2+</sup> -activated photoprotein obelin from apo-obelin and mRNA inside human neutrophils, <u>Biochem. J.</u> 252(1):143-9 (1988)
	PG	Casadei <i>et al.</i> , Characterization of a chimeric aequorin molecule expressed in myeloma cells, <u>J. Bioluminescence &amp; Chemiluminescence</u> 4(1): 346-350 (1989)
	PH	Chalfie, Green fluorescent protein, <u>Photochemistry and Photobiology</u> , 62(4):651-656 (1995)
	PI	Charbonneau <i>et al.</i> , "Amino acid sequence of the calcium-dependent photoprotein aequorin," <u>Biochem.</u> 24:6762-6771 (1985)
	PJ	Charbonneau H, and Cormier M. Ca <sup>2+</sup> -induced bioluminescence in <i>Renilla reniformis</i> . Purification and Characterization of a calcium-triggered luciferin-binding protein. <u>J. Biol. Chem.</u> 254(3):769-80 (1979)
	PK	Chemical Abstract #115(5)43510b (citing, Japanese Patent Application No. JP 3-30678 Osaka)
	PL	Chen <i>et al.</i> , "Analogous" organic synthesis of small-compound libraries: validation of combinatorial chemistry in small molecule synthesis, <u>J. Am. Chem. Soc.</u> 116:2661, (1994).
	PM	Cohn <i>et al.</i> , Nucleotide sequence of the <i>luxa</i> gene of <i>Vibrio harveyi</i> and the complete amino acid sequence of the $\alpha$ subunit of bacterial luciferase, <u>J. Biol. Chem.</u> 260: 6139-6146 (1985)
gjh	PN	Cohn D et al. Cloning of the <i>Vibrio harveyi</i> luciferase genes: use of a synthetic oligonucleotide probe. <u>Proc. Natl. Acad. Sci. USA</u> 80(1):120-123 (1983)

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all	PO	Cormier <i>et al.</i> , Evidence for similar biochemical requirements for bioluminescence among the coelenterates, <i>J. Cell Physiol.</i> 81: 291-298 (1972)
	PP	Cormier "Renilla and Aequorea bioluminescence" pp 225-233 in <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications.</u> DeLuca et al eds, Academic Press 1981.
	PQ	Crescitelli, Adaptations of visual pigments to the photic environment of the deep sea, <i>J. Exptl. Zool. Supp.</i> 5: 66-75 (1991)
	PR	Database EMBL Nucleotide and Protein Sequences, AC = AF025844, Co-reporter vector pRL-Null, complete sequence, abstract, (1997)
	PS	de Wet <i>et al.</i> , "Cloning of firefly luciferase cDNA and the expression of active luciferase in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:7870-7873 (1985)
	PT	de Wet <i>et al.</i> , "Cloning and expression of the firefly luciferase gene in mammalian cells," <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications.</u> DeLuca <i>et al.</i> , eds., pp. 368-371, Academic Press (1981)
	PU	de Wet <i>et al.</i> , "Cloning firefly luciferase," <i>Meth. Enzymol.</i> 133:3-14 (1986)
	PV	Delagrave <i>et al.</i> , Red-shifted excitation mutants of the green fluorescent protein, <i>Bio/Technology</i> 13(2):151-154 (1995)
	PW	Derwent #009443237 WPI Acc. No. 93-136754/17 (citing, Japanese Patent Application No. JP 5064583, published March 19, 1993)
	PX	Derwent #010423635 WPI Acc. No. 95-324955/42 (citing, Japanese Patent Application No. JP 7222590, published August 22, 1995)
	PY	Derwent # 007778737 WPI Acc. No. 89-043849/06 (citing, Japanese Patent Application No. JP 63317079, published December 26, 1988)
	PZ	Derwent #009227258 WPI Acc. No. 92-354680/43 (citing, Japanese Patent Application No. JP 4258288, published September 14, 1993)
	QA	DeWitt <i>et al.</i> , Diversomers: an approach to nonpeptide, nonoligomeric chemical diversity, <i>Proc. Natl. Acad. Sci. USA</i> 90: 6909-6913 (1993)
	QB	DIALOG Abstract 001641802, citing: FR 2292595
	QC	DIALOG Abstract 008629835, citing: DE 3935974 A1
	QD	DIALOG Abstract 007325798, citing: EP 246174 A1
all	QE	DIALOG Abstract 007775837, citing: EP 302819 A1

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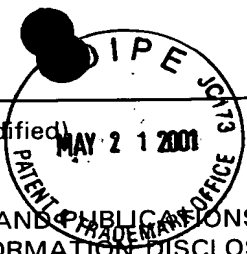
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gfr	QF	DIALOG Abstract 009182471, citing: FR 2674223 A1
	QG	DIALOG Abstract 002042687, citing: JP 7241192
	QH	Düzgunes <i>et al.</i> , Fusion of phospholipid vesicles induced by divalent cations and protons; modulation by phase transitions, free fatty acids, monovalent cations, and polyamines, <u>Cell Fusion</u> , Ch. 11 Divalent Cations and Protons, Sowers, A.E. (ed.) pp. 241-267 (1984).
	QI	Ehrig <i>et al.</i> , Green-fluorescent protein mutants with altered fluorescence excitation spectra, <u>FEBS Letters</u> 367:163-166 (1995)
	QJ	Eichler <i>et al.</i> , Identification of substrate-analog trypsin inhibitors through the screening of synthetic peptide combinatorial libraries, <u>Biochemistry</u> 32: 11035-11041 (1993)
	QK	Ellens <i>et al.</i> , pH-induced Destabilization of phosphatidylethanolamine-containing liposomes: Role of bilayer contact, <u>Biochemistry</u> , 23: 1532-1538 (1984)
	QL	Engbrecht <i>et al.</i> , "Techniques for cloning and analyzing bioluminescence genes from marine bacteria," <u>Meth. Enzymol.</u> 133:83-99, 234 (1986)
	QM	Engbrecht <i>et al.</i> , Bacterial bioluminescence: Isolation and genetic analysis of functions from <i>Vibrio fischeri</i> , <u>Cell</u> 32: 773-781 (1983)
	QN	Engbrecht <i>et al.</i> , Identification of genes and gene products necessary for bacterial bioluminescence, <u>Proc. Natl. Acad. Sci. USA</u> 81: 4154-4158 (1984)
	QO	Fairchild <i>et al.</i> , Oligomeric structure, enzyme kinetics, and substrate specificity of the phycocyanin $\alpha$ subunit phycocyanobilin lyase, <u>J. Biol. Chem.</u> 269(12): 8686-8694 (1994)
	QP	Frackman <i>et al.</i> , "Cloning, organization, and expression of the bioluminescence genes of <i>Xenorhabdus luminescens</i> ," <u>J. Bacteriol.</u> 127(10):5767-5773 (1990)
	QQ	Fratamico <i>et al.</i> , Construction and characterization of Escherichia coli 0157:H7 strains expressing firefly luciferase and green fluorescent protein and their use in survival studies, <u>J of Food Protection</u> 60(10):1167-1173 (1997)
	QR	Gast <i>et al.</i> , Separation of a blue fluorescence protein from bacterial luciferase. <u>Biochem. Biophys. Res. Commun.</u> 80(1): 14-21 (1978)
	QS	Gautier <i>et al.</i> , Alternate determination of ATP and NADH with a single bioluminescence-based fiber-optic sensor, Fifth International Conference on Solid State Sensors and Actuators and Eurosensors III, Montreux, Switzerland, 25-30 June 1989
	QT	Gesztes <i>et al.</i> , Topical anesthesia of the skin by liposome-encapsulated tetracaine, <u>Anesthesia Analg.</u> 67: 1079-1081 (1988)

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dh	QU	Gilbert <i>et al.</i> , Expression of genes involved in phycocyanin biosynthesis following recovery of <i>Synechococcus</i> PCC 6301 from nitrogen starvation, and the effect of gabaculine on <i>cpcBa</i> transcript levels, <u>FEMS Microbiol. Lett.</u> 140: 93-98 (1996)
	QV	Glazer, Phycobilisomes: structure and dynamics, <u>Ann. Rev. Microbiol.</u> 36: 173-98 (1982).
	QW	Goldmacher <i>et al.</i> , Photoactivation of toxin conjugates, <u>Bioconj. Chem.</u> 3:104-107 (1992)
	QX	Goto <i>et al.</i> , Preliminary report on the pink-colored <i>Cypridina</i> luciferase, a natural model of the luciferin-luciferase complex, in <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</u> , DeLuca <i>et al.</i> , eds., pp. 203-207, Academic Press (1981)
	QY	Grentzmann <i>et al.</i> , A dual-luciferase system for studying recoding signals, <i>RNA</i> 479-486 (1998)
	QZ	Guyomard <i>et al.</i> , Integration and germ line transmission of foreign genes microinjected into fertilized trout eggs, <u>Biochimie</u> 71:857-863 (1989)
	RA	Hart <i>et al.</i> , <i>Renilla reniformis</i> bioluminescence: luciferase-catalyzed production of nonradiating excited states from luciferin analogues and elucidation of the excited states species involved in energy transfer to <i>Renilla</i> green fluorescent protein, <u>Biochemistry</u> 18: 2204-2210, (1979).
	RB	Hastings, Bioluminescence, in <u>Cell Physiol.: Source Book</u> , Sperelakis, ed., pp. 665-681, Academic Press (1995)
	RC	Hastings, <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</u> , DeLuca <i>et al.</i> , eds., pp. 343-349, Academic Press (1981)
	RD	Hazum <i>et al.</i> , A photocleavable protecting group for the thiol function of cysteine, <u>Pept., Proc. Eur. Pept. Symp.</u> , 16th, Brunfeldt, K (Ed), pp. 105-110 (1981)
	RE	Heim <i>et al.</i> , Engineering green fluorescent protein for improved brightness, longer wavelengths and fluorescence resonance energy transfer, <i>Current Biology</i> 6(2):178-182 (1996)
	RF	Hermanson <i>et al.</i> , <u>Immobilized Affinity Ligand Techniques</u> , Chaps. 1 and 2, Academic Press, Inc. (1992)
dh	RG	Hill <i>et al.</i> , <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</u> , DeLuca <i>et al.</i> , eds., pp. 396-399, Academic Press (1981)

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RH	Hiller-Adams <i>et al.</i> , The visual pigments of four deep-sea crustacean species, <u>J. Comp. Physiol. A</u> 163: 63-72 (1988)
RI	Hori <i>et al.</i> , Structure of native <i>Renilla reniformis</i> luciferin, <u>Proc. Natl. Acad. Sci. USA</u> 74: 4285-4287 (1977)
RJ	Hori <i>et al.</i> , <i>Renilla</i> luciferin as the substrate for calcium induced photoprotein bioluminescence. Assignment of luciferin plutomers in aequorin and mnemiopsin, <u>Biochemistry</u> 14: 2371-2376, (1975).
RK	Houmard <i>et al.</i> , Genes encoding core components of the phycobilisome in cyanobacterium <i>Calothrix</i> sp. strain PCC 7601: occurrence of a multigene family, <u>J. Bacteriol.</u> 170(12): 5512-5321 (1988)
RL	Illarionov <i>et al.</i> , Sequence of the cDNA encoding the Ca <sup>2+</sup> -activated photoprotein obelin from the hydroid poly <i>Obelia longissima</i> , <u>Gene</u> 153:273-274 (1995)
RM	<u>Immobilized Enzyme, Antigens, Antibodies and Peptides. Preparation and Characterization</u> , Marcel Dekker, Inc., N.Y., Howard H. Weetall (ed.) (1975)
RN	<u>Immobilized Biochemicals and Affinity Chromatography, Advances in Experimental Medicine and Biology</u> , Vol 42, ed. R. Dunlap, Plenum Press, N.Y. (1974)
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RP	Inouye <i>et al.</i> , "Overexpression and purification of the recombinant Ca <sup>2+</sup> -binding protein, apoequorin," <u>J. Biochem.</u> 105(3):473-477 (1989)
RQ	Inouye <i>et al.</i> , "Expression of apoequorin complementary DNA in <i>Escherichia coli</i> ," <u>Biochem.</u> 25:8425-8429 (1986)
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RS	Inouye <i>et al.</i> , Monitoring gene expression in Chinese hamster ovary cells using secreted apoequorin, <u>Analyt. Biochem.</u> 201(1): 114-118 (1992)
RT	Inouye <i>et al.</i> , <u>Jap. Soc. Chem. Lett.</u> 141-144 (1975)
RU	Inouye <i>et al.</i> , "Cloning and sequence analysis of cDNA for the luminescent protein aequorin," <u>Proc. Natl. Acad. Sci. USA</u> 82:3154-3158 (1985)
RV	Johnson, <u>Luminescence, Narcosis, and Life in the Deep Sea</u> , pp. 51-56, Vantage Press
RW	Johnson <i>et al.</i> , "Introduction to the <i>Cypridina</i> system," <u>Methods in Enzymology. Bioluminescence and Chemiluminescence.</u> 57:331-349 (1978)

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RX	Karatani <i>et al.</i> , A blue fluorescent protein from a yellow-emitting luminous bacterium, <u>Photochem. Photobiol.</u> <b>55(2)</b> : 293-299 (1992)
RY	Karp <i>et al.</i> , <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</u> , DeLuca <i>et al.</i> , eds., pp. 360-363, Academic Press (1981)
RZ	Kendall <i>et al.</i> , Changes in free calcium in the endoplasmic reticulum of living cells detected using targeted aequorin, <u>Anal. Biochem.</u> <b>22(1)</b> :173-81 (1994)
SA	Kennedy and Cabral, Immobilized Enzymes, in <u>Solid Phase Biochemistry, Analytical and Synthetic Aspects</u> , Scouten, Ed., 7:253-391 (1983)
SB	Kent <i>et al.</i> , Preparation and properties of tert-butyloxycarbonylaminocayl-4-(oxymethyl) phenylacetamidomethyl-(Kel F-g-styrene) resin, an insoluble, noncrosslinked support for solid phase peptide synthesis, <u>Israel J. Chem.</u> <b>17</b> : 243-247 (1978)
SC	Kim <i>et al.</i> , Preparation of multivesicular liposomes, <u>Biochim. Biophys. Acta.</u> <b>728</b> : 339-348 (1983)
SD	Kleine <i>et al.</i> , Lipopeptide-polyoxyethylene conjugates as mitogens and adjuvants, <u>Immunobiology</u> <b>190</b> : 53-66 (1994)
SE	Knight <i>et al.</i> , Imaging calcium dynamics in living plants using semi-synthetic recombinant aequorins, <u>J. Cell Biol.</u> <b>121(1)</b> :83-909 (1993)
SF	Knight <i>et al.</i> , Transgenic plant aequorin reports the effects of touch and cold-shock and elicitors on cytoplasmic calcium, <u>Nature</u> <b>352(6335)</b> : 524-526 (1991)
SG	Koch <i>et al.</i> , The oxidative cleavability of protein cross-linking reagents containing organoselenium bridges, <u>Bioconj. Chem.</u> <b>1</b> : 296-304 (1990)
SH	Kohama <i>et al.</i> , Molecular weight of the photoprotein aequorin, <u>Biochemistry</u> <b>10</b> : 4149-4152 (1971)
SI	Kronick, The use of phycobiliproteins as fluorescent labels in immunoassay, <u>J. Immunolog. Meth.</u> <b>92</b> : 1-13 (1986)
SJ	Kurose <i>et al.</i> , Bioluminescence of the Ca <sup>2+</sup> -binding photoprotein aequorin after cysteine modification, <u>Proc. Natl. Acad. Sci. USA</u> <b>86(1)</b> : 80-84 (1989)
SK	Kusumi <i>et al.</i> , Liposomes that can be disintegrated by photo-irradiation, <u>Chemistry Letters</u> 433-436 (1989)
SL	Leach <i>et al.</i> , Commercially available firefly luciferase reagents, in <u>Methods in Enzymology. Bioluminescence and Chemiluminescence Part B</u> <b>133</b> :51-69, Academic Press (1986)

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SM	Lee <i>et al.</i> , <u>Methods in Enzymology. Bioluminescence and Chemiluminescence</u> . 57:226-233, DeLuca, ed., pp. 372-375, Academic Press (1978)
SN	Legocki <i>et al.</i> , Bioluminescence in soybean root nodules: Demonstration of a general approach to assay gene expression <i>in vivo</i> by using bacterial luciferase, <u>Proc. Natl. Acad. Sci. USA</u> 81: 9080-9084 (1986)
SO	<u>Liposome Technology, Targeted Drug Delivery and Biological Interaction</u> , vol. III, G. Gregoriadis (ed.), CRC Press, Inc., 1984
SO	Liu <i>et al.</i> , A cyanidium caldarium Allophycocyanin $\beta$ subunit gene, <u>Plant Physiol.</u> 103:293-294 (1993)
SQ	Lorenz <i>et al.</i> , Isolation and expression of a cDNA encoding <i>Renilla reniformis</i> luciferase, <u>Proc. Natl. Acad. Sci. USA</u> 88: 4438-4442 (1991)
SR	Lucas <i>et al.</i> , Coelenterazine is a superoxide anion-sensitive chemiluminescent probe: its usefulness in the assay of respiratory burst in neutrophils, <u>Analyt. Biochem.</u> 206(2):273-277 (1992)
SS	Matthews <i>et al.</i> , Purification and properties of <i>Renilla reniformis</i> luciferase, <u>Biochemistry</u> , 16: 85-91 (1977)
ST	McElroy <i>et al.</i> , The colors of bioluminescence: Role of enzyme and substrate structure, in <u>Molecular Architecture in Cell Physiology</u> , pp. 63-80, Hayashi <i>et al.</i> , eds., Prentice-Hall, Inc., Englewood Cliffs, NJ (1966)
SU	Merrifield, Solid-phase peptide synthesis. III. An improved synthesis of bradykinin, <u>Biochemistry</u> 3(9): 1385-1390 (1964)
SV	Mezei <i>et al.</i> , Liposomes - A selective drug delivery system for the topical route of administration, <u>Life Sci.</u> 26: 1473-1477 (1980)
SW	Mezei <i>et al.</i> , Liposomes - A selective drug delivery system for the topical route of administration: Gel dosage form, <u>J. Pharm. Pharmacol.</u> 34: 473-474 (1981)
SX	Mitchell <i>et al.</i> , Preparation of aminomethyl-polystyrene resin by direct aminomethylation, <u>Tetra. Lett.</u> , 42: 3795-3798 (1976)
SY	Mitchell <i>et al.</i> , A new synthetic route to tert-butyloxycarbonylaminoacyl-4-(oxymethyl)phenylacetamidomethyl-resin, an improved support for solid-phase peptide synthesis, <u>J. Org. Chem.</u> 43: 2845-2852 (1978)
SZ	Mitra <i>et al.</i> , Fluorescence resonance energy transfer between blue-emitting and red-shifted excitation derivatives of the green fluorescent protein, <u>Gene</u> 73(1):13-17 (1996)

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TA	Miyamoto <i>et al.</i> , Cloning and expression of the genes from the bioluminescent system of marine bacteria, <u>Meth. Enzymol.</u> 133:70-81 (1986)
TB	<u>Molecular Biology of the Gene</u> , 4th Edition, 1987, ed. Watson et al. The Benjamin/Cummings Pub. co. Pg 224
TC	Mosbach, K and Mattiasson, B. Multistep enzyme systems. <u>Methods in Enzymology</u> 44:453-478 (1976)
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TE	Mosbach, AMP and NAD as 'general ligands', <u>Affinity Techniques. Enzyme Purification: Part B. Methods in Enzymology</u> , Vol. 34, W. B. Jakoby, <i>et al.</i> (eds.), Acad. Press, N.Y. (1974)
TF	Mosbach et al. Immobilization of enzymes to various acrylic copolymers. <u>Methods in Enzymology</u> 44:53-65 (1976)
TG	Nakajima-Shimada <i>et al.</i> , Monitoring of intracellular calcium in <i>Saccharomyces cerevisiae</i> with an apoaquorin cDNA expression system, <u>Proc. Natl. Acad. Sci. USA</u> 88(15): 6878-6882 (1991)
TH	Nicoli <i>et al.</i> , Bacterial luciferase: The hydrophobic environment of the reactive sulfhydryl, <u>J. Biol. Chem.</u> 249: 2393-2396 (1974)
TI	O'Day <i>et al.</i> , <i>Aristostomias scintillans (Malacostiedae)</i> : a deep sea fish with visual pigments apparently adapted to its own bioluminescence, <u>Vision Res.</u> 14:545-550 (1974)
TJ	Ozato <i>et al.</i> , Production of transgenic fish: introduction and expression of chicken $\gamma$ -crystalline gene in medaka embryos, <u>Cell Differ. Devel.</u> 19:237-244 (1986)
TK	Padwa and Carls, Thermal rearrangement of allyl substituted 2H-azirines to 3 azabicyclo [3.1.0] hex-2-enes, <u>J. Org. Chem.</u> 41: 180-182 (1976)
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TM	Patel, Liposomes as a controlled-release system, <u>Biochem. Soc. Trans.</u> 13: 513-516 (1985)
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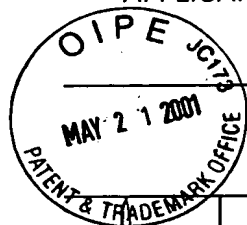
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TP	Pilot <i>et al.</i> , Cloning and sequencing of the genes encoding the $\alpha$ and $\beta$ subunits of C-phycocyanin from the cyanobacterium <i>Agmenellum quadruplicatum</i> , <u>Proc. Natl. Acad. Sci. USA</u> <b>81</b> : 6983-6987 (1984)
TQ	Powers <i>et al.</i> , Protein purification by affinity binding to unilamellar vesicles, <u>Biotechnol. Bioeng.</u> <b>33</b> : 173-182 (1989)
TR	Prasher <i>et al.</i> , Primary structure of the <i>Aequorea victoria</i> green-fluorescent protein, <u>Gene</u> <b>111</b> :229-233 (1992)
TS	Prasher <i>et al.</i> , Isolation and expression of a cDNA coding for aequorin, the $\text{Ca}^{2+}$ -activated photoprotein from <i>Aequorea victoria</i> , <u>Meth. Enzymol.</u> <b>133</b> :288-297 (1986)
TT	Prasher <i>et al.</i> , <u>Bioluminescence and Chemiluminescence. Basic Chemistry and Analytical Applications</u> , DeLuca <i>et al.</i> , eds., pp. 365-367, Academic Press (1981)
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TX	Rivera <i>et al.</i> , AquaLite® Streptavidin for supersensitive TSH assays in microtiter plates and coated tubes, <u>SeaLite Sciences Technical Report No. 6</u>
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UA	Romoser <i>et al.</i> , Detection in living cells of $\text{Ca}^{2+}$ -dependent changes in the fluorescence emission of an indicator composed of two green fluorescent protein variants linked by a calmodulin-binding sequence, <u>J. of Biolog. Chem.</u> <b>272</b> (20):13270-13274 (1997)
UB	Rutter <i>et al.</i> , Involvement of MAP kinase in insulin signalling revealed by non-invasive imaging of luciferase gene expression in single living cells, <u>Current Biology</u> <b>5</b> (8): 890-9 (1995)

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gjh	UC	Sandalova, Some notions about structure of bacterial luciferase, obtained by analysis of amino acid sequence, and study of monoclonal antibodies binding, In <i>Biological Luminescence, Proceedings of International School</i> , 1st, ed., Jezowska-Trzebiatowska <i>et al.</i> , World Science (1990)
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	UE	Sedlak <i>et al.</i> , Bioluminescent Technology for Reagents, Diagnostics and Toxicology, "Genetic Engineering News, September 15, 1995
	UF	Senter <i>et al.</i> , Novel photocleavable protein crosslinking reagents and their use in the preparation of antibody-toxin conjugates, <i>Photochem. Photobiol.</i> 42: 231-237 (1985)
	UG	Sgoutas <i>et al.</i> , AquaLite® bioluminescence assay of thyrotropin in serum evaluated, <i>Clin. Chem.</i> 41(11):1637-1643 (1995)
	UH	Sherf <i>et al.</i> , Dual-luciferase reporter assay: an advanced co-reporter technology integrating firefly and <i>Renilla</i> luciferase assays, <i>Promega Notes</i> 57:2-5 (1996)
	UI	Sheu <i>et al.</i> , Measurement of intracellular calcium using bioluminescent aequorin exposed in human cells, <i>Analyt. Biochem.</i> 209(2): 343-347 (1993)
	UJ	Shimomura <i>et al.</i> , Resistivity to denaturation of the apoprotein of aequorin and reconstitution of the luminescent photoprotein from the partially denatured apoprotein, <i>Biochem J.</i> 199:825-828 (1981)
	UK	Shimomura <i>et al.</i> , Recombinant aequorin and recombinant semi-synthetic aequorins. Cellular Ca <sup>2+</sup> ion indicators, <i>Biochem. J.</i> 270(2): 309-12 (1990)
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	UM	Shimomura, Bioluminescence in the sea: photoprotein systems [Review], Symposia of the Society for Experimental Biology 39: 351-372 (1985)
	UN	Shimomura <i>et al.</i> , Properties and reaction mechanism of the bioluminescence system of the deep-sea shrimp <i>Oplophorus graciliorostris</i> , <i>Biochem</i> 17(6): 994-998 (1978)
	UO	Shimomura <i>et al.</i> , Properties of the bioluminescent protein aequorin, <i>Biochemistry</i> 8: 3991-3997 (1969)
gjh	UP	Shimomura O, and Johnson F. Structure of the light-emitting moiety of aequorin. <i>Biochemistry</i> 11(9):1602-1608 (1972)

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gh	UQ	Shimomura O, and Johnson F. The structure of <i>Latia</i> luciferin. <u>Biochemistry</u> 7(5):1734-1738 (1968)
	UR	Shimomura <i>et al.</i> , Semi-synthetic aequorins with improved sensitivity to Ca <sup>2+</sup> ions, <u>Biochem. J.</u> 261(3): 913-920 (1989)
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	UT	Shimomura <i>et al.</i> , Peroxidized coelenterazine, the active group in the photoprotein aequorin, <u>Proc. Natl. Acad. Sci. USA</u> 75(6): 2611-5 (1978)
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	UZ	Spurlok <i>et al.</i> , A fine structure study of the anthocodium in <i>Renilla mulleri</i> , <u>J. of Cell Biology</u> 64:15-28 (1975)
	VA	Stability of AquaLite®: lyophilized and in solution, <u>SeaLite Sciences Technical Report No. 8</u> (1994)
	VB	Stephenson <i>et al.</i> , Studies on the luminescent response of the Ca <sup>2+</sup> -activated photoprotein, obelin, <u>Biochim. Biophys. Acta</u> 678: 65-75 (1981)
	VC	Stewart and Young, Laboratory techniques in solid phase peptide synthesis, <u>Solid Phase Peptide Synthesis</u> , 2d Ed., Pierce Chemical Co., pp. 53-73 (1984)
gh	VD	Straubinger <i>et al.</i> , Endocytosis of liposomes and intracellular fate of encapsulated molecules: Encounter with a low pH compartment after internalization in coated vesicles, <u>Cell</u> 32: 1069-1079 (1983)

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gh	VE	Strubinger <i>et al.</i> , pH-sensitive liposomes mediate cytoplasmic delivery of encapsulated macromolecules, <u>FEBS Letters</u> 179: 148-154 (1985)
	VF	Sucholeiki, Solid-phase photochemical C-S Bond cleavage of thioethers - A New approach to the solid-phase production of non-peptide molecules, <u>Tetrahedron Ltrrs.</u> 35:7307 (1994)
	VG	Thompson <i>et al.</i> , <i>Vargula hilgendorffii</i> luciferase: a secreted reporter enzyme for monitoring gene expression in mammalian cells, <u>Gene</u> 96:257-262 (1990)
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	VL	Tsuji, <i>Cypridina</i> luciferin and luciferase, <u>Meth. Enzymol.</u> 57:364-372 (1978)
	VM	Vedejs <i>et al.</i> , A method for mild photochemical oxidation: Conversion of phenacyl sulfides into carbonyl compounds, <u>J. Org. Chem.</u> 49: 573-575 (1984)
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	VP	Wang, Solid phase synthesis of protected peptides via photolytic cleavage of the $\alpha$ -methylphenacyl ester anchoring linkage, <u>J. Org. Chem.</u> 41: 3258-3261 (1976)
	VQ	Ward <i>et al.</i> , Extraction of <i>Renilla</i> -type luciferin from the calcium-activated photoproteins aequorin, mnemiopsin, and berovin, <u>Proc. Natl. Acad. Sci. USA</u> 72: 2530-2534 (1975)
	VR	Ward <i>et al.</i> , An energy transfer protein in coelenterate bioluminescence, <u>J. Biol. Chem.</u> 254: 781-788 (1979)
gh	VS	Ward, General Aspects of Bioluminescence, in <u>Chemi- and Bioluminescence</u> , Burr, ed., Marcel Dekker, Inc., New York

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	VU	Watkins <i>et al.</i> , Requirement of the C-terminal proline residue for stability of the $\text{Ca}^{2+}$ -activated photoprotein aequorin, <u>Biochem. J.</u> 293(Pt.1): 181-185 (1993)
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	VX	Wohlrab <i>et al.</i> , Penetration Kinetics of liposomal hydrocortisone in human skin, <u>Dermatologica</u> 174: 18-22 (1987)
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	WA	Yatvin <i>et al.</i> , Temperature- and pH-sensitive liposomes for drug targeting, <u>Meth. Enzymol.</u> 149: 77-87 (1987)
	WB	Yen <i>et al.</i> , Synthesis of water-soluble copolymers containing photocleavable bonds, <u>Makromol. Chemistry</u> 190: 69-82 (1989)
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